

110个oracle常用函数总结(8)Oracle认证考试 PDF转换可能丢失
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https://www.100test.com/kao_ti2020/645/2021_2022_110_E4_B8_AAorac_c102_645066.htm "libai"> 101。RATIO_TO_REPORT功

能描述：该函数计算expression/(sum(expression))的值，它给出相对于总数的百分比，即当前行对sum(expression)的贡献。

SAMPLE：下例计算每个员工的工资占该类员工总工资的百分比
SELECT last_name, salary, RATIO_TO_REPORT(salary)

OVER () AS rr FROM employees WHERE job_id = PU_CLERK.
LAST_NAME SALARY RR -----

----- Khoo 3100 .223021583 Baida 2900 .208633094 Tobias
2800 .201438849 Himuro 2600 .18705036 Colmenares 2500

.179856115 102。REGR_ (Linear Regression) Functions功能描述

：这些线性回归函数适合最小二乘法回归线，有9个不同的回归函数可使用。REGR_SLOPE：返回斜率，等

于COVAR_POP(expr1, expr2) / VAR_POP(expr2)

REGR_INTERCEPT：返回回归线的y截距，等于AVG(expr1) -

REGR_SLOPE(expr1, expr2) * AVG(expr2) REGR_COUNT：返回

用于填充回归线的非空数字对的数目 REGR_R2：返回回归

线的决定系数，计算式为：If VAR_POP(expr2) = 0 then return

NULL If VAR_POP(expr1) = 0 and VAR_POP(expr2) != 0 then

return 1 If VAR_POP(expr1) > 0 and VAR_POP(expr2) != 0 then

return POWER(CORR(expr1,expr),2) REGR_AVGX：计算回归

线的自变量(expr2)的平均值，去掉了空对(expr1, expr2)后，等

于AVG(expr2) REGR_AVGY：计算回归线的应变变量(expr1)的

平均值，去掉了空对(expr1, expr2)后，等于AVG(expr1)

REGR_SXX : 返回值等于REGR_COUNT(expr1, expr2) *
 VAR_POP(expr2) REGR_SYY : 返回值等
 于REGR_COUNT(expr1, expr2) * VAR_POP(expr1) REGR_SXY:
 返回值等于REGR_COUNT(expr1, expr2) *
 COVAR_POP(expr1, expr2) (下面的例子都是在SH用户下完
 成的) SAMPLE 1 : 下例计算1998年最后三个星期中两种产品
 (260和270) 在周末的销售量中已开发票数量和总数量的累
 积斜率和回归线的截距 SELECT t.fiscal_month_number
 "Month", t.day_number_in_month "Day",
 REGR_SLOPE(s.amount_sold, s.quantity_sold) OVER (ORDER
 BY t.fiscal_month_desc, t.day_number_in_month) AS
 CUM_SLOPE, REGR_INTERCEPT(s.amount_sold,
 s.quantity_sold) OVER (ORDER BY t.fiscal_month_desc,
 t.day_number_in_month) AS CUM_ICPT FROM sales s, times t
 WHERE s.time_id = t.time_id AND s.prod_id IN (270, 260) AND
 t.fiscal_year=1998 AND t.fiscal_week_number IN (50, 51, 52) AND
 t.day_number_in_week IN (6,7) ORDER BY t.fiscal_month_desc,
 t.day_number_in_month. Month Day CUM_SLOPE CUM_ICPT
 ----- 12 12 -68 1872 12 12 -68
 1872 12 13 -20.244898 1254.36735 12 13 -20.244898 1254.36735 12
 19 -18.826087 1287 12 20 62.4561404 125.28655 12 20 62.4561404
 125.28655 12 20 62.4561404 125.28655 12 20 62.4561404 125.28655
 12 26 67.2658228 58.9712313 12 26 67.2658228 58.9712313 12 27
 37.5245541 284.958221 12 27 37.5245541 284.958221 12 27
 37.5245541 284.958221 SAMPLE 2 : 下例计算1998年4月每天的
 累积交易数量 SELECT UNIQUE t.day_number_in_month,

```

REGR_COUNT(s.amount_sold, s.quantity_sold) OVER
(PARTITION BY t.fiscal_month_number ORDER BY
t.day_number_in_month) "Regr_Count" FROM sales s, times t
WHERE s.time_id = t.time_id AND t.fiscal_year = 1998 AND
t.fiscal_month_number = 4. DAY_NUMBER_IN_MONTH
Regr_Count ----- 1 825 2 1650 3 2475 4 3300

```

. 26 21450 30 22200 SAMPLE 3：下例计算1998年每月销售量中

已开发票数量和总数量的累积回归线决定系数 SELECT

```

t.fiscal_month_number, REGR_R2(SUM(s.amount_sold),
SUM(s.quantity_sold)) OVER (ORDER BY
t.fiscal_month_number) "Regr_R2" FROM sales s, times t WHERE
s.time_id = t.time_id AND t.fiscal_year = 1998 GROUP BY
t.fiscal_month_number ORDER BY t.fiscal_month_number.

```

```

FISCAL_MONTH_NUMBER Regr_R2 -----
----- 1 2 1 3 .927372984 4 .807019972 5 .932745567 6 .94682861
7 .965342011 8 .955768075 9 .959542618 10 .938618575 11

```

.880931415 12 .882769189 SAMPLE 4：下例计算1998年12月最后
两周产品260的销售量中已开发票数量和总数量的累积平均值

```

SELECT t.day_number_in_month, REGR_AVGY(s.amount_sold,
s.quantity_sold) OVER (ORDER BY t.fiscal_month_desc,
t.day_number_in_month) "Regr_AvgY",
REGR_AVGX(s.amount_sold, s.quantity_sold) OVER (ORDER
BY t.fiscal_month_desc, t.day_number_in_month) "Regr_AvgX"
FROM sales s, times t WHERE s.time_id = t.time_id AND
s.prod_id = 260 AND t.fiscal_month_desc = 1998-12 AND
t.fiscal_week_number IN (51, 52) ORDER BY

```

t.day_number_in_month. DAY_NUMBER_IN_MONTH
Regr_AvgY Regr_AvgX ----- 14
882 24.5 14 882 24.5 15 801 22.25 15 801 22.25 16 777.6 21.6 18
642.857143 17.8571429 18 642.857143 17.8571429 20 589.5 16.375
21 544 15.1111111 22 592.363636 16.4545455 22 592.363636
16.4545455 24 553.846154 15.3846154 24 553.846154 15.3846154 26
522 14.5 27 578.4 16.0666667 100Test 下载频道开通，各类考试
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